EFED FILE COTY

MRID No. 444577-78

DATA EVALUATION RECORD ALGAE OR DIATOM TIER I TEST GUIDELINE 122-2

1. CHEMICAL: Prohexadione calcium PC Code No.: 112600

2. TEST MATERIAL: BAS 125 W Purity: 90.6%

3. CITATION:

Authors: S.G. Thompson, J.P. Swigert, D.W.

Haughey, and J. Qiu

Title: BAS 125 W: A 5-Day Toxicity Test with the

Freshwater Alga (Anabaena flos-aquae)

Study Completion Date: January 23, 1997

Laboratory: Wildlife International Ltd., Easton, MD

Sponsor: BASF Corporation, Research Triangle Park,

NC

Laboratory Report ID: 147A-144

<u>DP Barcode</u>: D245631 <u>MRID No.</u>: 444577-78

4. REVIEWED BY: Mark A. Mossler, M.S., Toxicologist,

Golder Associates Inc.

signature: MatMuls

Date: 7/1/98

APPROVED BY: Pim Kosalwat, Ph.D., Senior Scientist,

Golder Associates Inc.

signature: P. Kosalwat

Date: 7/1/98

5. APPROVED BY:

Signature:

Joseph Sylvetin

Date: /0/22/98

6. STUDY PARAMETERS:

Definitive Test Duration: 120 hours
Type of Concentrations: Mean measured

7. CONCLUSIONS: This study is scientifically sound and fulfills the guideline requirements for an algal toxicity test.

Exposure for 120 hours to a mean measured BAS 125 W concentration of 1.2 mg ai/L (representative of the aquatic concentration equivalent to the maximum labeled use rate of 1.67 lb ai/A) reduced the growth and reproduction of A. flosaquae by 8%.

8. ADEQUACY OF THE STUDY:

A. Classification: Core

B. Rationale: N/A

C. Repairability: N/A

9. **GUIDELINE DEVIATIONS:** No deviations of consequence were noted.

10. SUBMISSION PURPOSE:

11. MATERIALS AND METHODS:

A. Test Organisms

Guideline Criteria	Reported Information
<u>Species</u> Skeletonema costatum Anabaena flos-aquae Selenastrum capricornutum Navicula pelliculosa	Anabaena flos-aquae
Initial Number of Cells 3,000 - 10,000 cells/mL	3,000 cells/mL
Nutrients Standard formula, e.g. 20XAAP	Freshwater algal medium

B. Test System

Guideline Criteria	Reported Information
<u>Solvent</u>	None
Temperature Skeletonema: 20°C Others: 24-25°C	25.0-25.9°C
Light Intensity Anabaena: 2.0 KLux (±15%) Others: 4.0-5.0 KLux (±15%)	1.7 - 2.5 KLux

Guideline Criteria	Reported Information
Photoperiod Skeletonema: 14 h light, 10 h dark or 16 h light, 8 h dark Others: Continuous	Continuous
<pre>pH Skeletonema: approx. 8.0 Others: approx. 7.5</pre>	Initial 7.5 Final 8.1-8.2

C. Test Design

Guideline Criteria	Reported Information
<u>Dose range</u> 2X or 3X progression	N/A
<u>Doses</u> at least 5	1.2 mg active ingredient (ai)/L
Controls negative and/or solvent	Negative control
Replicates per dose 3 or more	3
<u>Duration of test</u> 120 hours	120 hours
Daily observations were made?	Yes
Method of Observations	Cellular counts
Maximum Labeled Rate	1.67 lb ai/A

12. REPORTED RESULTS:

Guideline Criteria	Reported Information
Initial and 120 h cell densities were measured?	Yes
Control cell count at 120 hr ≥2% initial count?	Yes
Initial chemical concentrations measured? (Optional)	Samples collected at study initiation and termination were analyzed by HPLC

Guideline Criteria	Reported Information
Raw data included?	Yes

Dose Response

Mean Measured Concentration (mg ai/L)	Avg. Cell Density (x 10° cells/mL)	% Inhibition	120-Hour pH
Control	55.0	_	8.2
1.2	50.8	8	8.1

Other Significant Results: None reported.

Statistical Method: No statistical analyses were performed. It was simply stated that BAS 125 W at a concentration of 1.2 mg ai/L inhibited the growth of A. flos-aquae by 8%.

- 13. <u>VERIFICATION OF STATISTICAL RESULTS</u>: It is apparent from the cell density values that the 5-day growth and reproduction of A. flos-aquae was only slightly reduced by exposure to BAS 125 W at a mean measured concentration of 1.2 mg ai/L.
- 14. REVIEWER'S COMMENTS: This study is scientifically sound and fulfills the guideline requirements for an algal toxicity test. Exposure for 120 hours to a mean measured BAS 125 W concentration of 1.2 mg ai/L reduced the growth and reproduction of A. flos-aquae by 8%. This study can be categorized as Core.

PROHEXACIONE CALCIUM

DER MRID 444577-78.
Page is not included in this copy. Pages _5_ through _15_ are not included.
The material not included contains the following type of information:
Identity of product inert ingredients.
Identity of product impurities.
Description of the product manufacturing process.
Description of quality control procedures.
Identity of the source of product ingredients.
Sales or other commercial/financial information.
A draft product label.
The product confidential statement of formula.
Information about a pending registration action.
X FIFRA registration data.
The document is a duplicate of page(s)
The document is not responsive to the request.
A
The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.